



T200 SERIES
TUNNEL CAGE
WASHERS

www.nsc-betterbuilt.com



T200 SERIES TUNNEL CAGE WASHERS

The BetterBuilt T200 Series Tunnel Washer is the result of a progressive approach to washer design. An approach that combines cleaning performance, ease of use and long-term durability to meet the demands of today's busy facilities.

Interior Trim Panels

T200 tunnel washers are built with stainless steel trim panels to close the space between the interior side-wall and the moving conveyor belt. These panels prevent small items such as sipper tubes or bottle stoppers from falling into the washer sump.

Noise Reduction

The stainless steel mesh conveyor runs on a series of nylon guides supported by a stainless steel frame. The nylon guides greatly reduce sound levels around the unit below 85dB and are in line with current worker safety recommendations.

Insulated Chamber and Treatment Sumps

The top, sides and bottom of the washer cabinet and side access doors are fully insulated and lined with stainless steel to reduce heat loss and noise transfer.

Safety Features

- The Load End and the Unload End are equipped with e-stop buttons located on both sides of the conveyor. When one or more of these buttons are pressed, the entire washer stops instantly.
- The conveyor belt has a clutch system that releases belt tension stopping forward movement when excess pressure is applied.
- All doors are equipped with contact sensors which prevent operation of the washer should any door not close prior to or open during operation.

Alkaline and Acid Compatible

All BetterBuilt washers have a stainless steel cabinet and circulatory system, containing no plastic or rubber connections. This makes the washer compatible with all alkaline or acidic detergents and extends the operational life of the washer.

Removable Upper and Lower Spray Manifolds

Positive spring-loaded connections ensure the best possible spray pressure from the spray manifolds. These manifolds are fitted with nylon wheels and wheel guides so they can be easily removed for cleaning.

Cold Water Pre-Wash

An additional spray header arm is provided in the pre-wash section which delivers added debris removal capabilities. A secondary benefit of this system is the reduction of steam vapor from the soiled end against the operator.



Touchscreen Control System

A microprocessor with 5" TFT color touchscreen interface monitors and controls all aspects of the washer cycles and process operations. Unique features include adjustable multi-tiered password access, advanced diagnostics, alarm and data logging, parts list ID with visual reference assists maintenance and troubleshooting.

Maintenance and Replacement Parts

A preventative maintenance program is required for warranty purposes and is available from a local service agent. All BetterBuilt washers use microprocessor program controllers for long life and ease of service diagnostics. All components are non-proprietary and are available from local suppliers or the factory.

Better Service

The main wash pumps and control valves are located on the side of the cabinet for easy access to reduce the cost of maintenance and repairs.

Sloped Belt For Dryer Section

The dryer section of the washer is provided with an inclined belt facilitating the draining of water from washed items.

Optional In-line Bedding Dispenser

We offer an in-line bedding dispenser for automated cage filling. The system is designed to handle most common forms of bedding material. The BetterBuilt bedding dispenser can be connected to a material handling system to receive bedding dispensed from a remote location.

Optional Energy Saver Heat Exchanger

This in-line instantaneous heat exchanger decreases the amount of steam consumption and eliminates cold water consumption required for drain tempering.

Optional Forced Air Nozzles

The dryer section is provided with a unique system of forced air nozzles to disperse water droplets from cages.

Optional Integrated Bedding Dump Stations

We offer bedding dump stations using either chain-drag or grinding technology to integrate with the tunnel washer. See www.sure-flo.com

Optional Automated Loading and/or Unload Systems

BetterBuilt T200 tunnel washers can be fully automated with cage loading and/or unloading systems for high volume applications. These systems use vision technology together with robotics to increase productivity and reduce repetitive motion injuries.

Easy Access to Filter Screens

Screen basket filters in three locations are used to collect bedding and debris. All filters are accessible from the side of the unit and are easily removed for cleaning. The deep basket debris filters are formed from fine stainless steel mesh, trapping debris without restricting the wash/rinse solution flow.





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APPLICATION

The BetterBuilt T200 Series conveyORIZED tunnel washers are automatic, heavy duty, high volume units designed to clean, sanitize and dry metal cages, plastic cages, water bottles in racks, pans and utensils used in the care and housing of research animals.

Note: Overall length is based on 36" load section, 48" pre-wash, 48" wash, 60" rinse and 48" unload section. 96" dryer section. Custom sizes can be provided, contact factory for details. Due to continued engineering improvements, specifications are subject to change without notice.

	INTERIOR CHAMBER	EXTERIOR CABINET
MODEL	W x H	W x H x L
T224	24 x 24" 610 x 610mm	52 x 99 x 240" 1320 x 2515 x 6096mm
T230	30 x 24" 762 x 610mm	58 x 99 x 240" 1473 x 2515 x 6096mm
T236	36 x 24" 914 x 610mm	64 x 99 x 240" 1626 x 2515 x 6096mm
T242	42 x 24" 1067 x 610mm	70 x 99 x 240" 1778 x 2515 x 6096mm
T248	48 x 24" 1219 x 610mm	76 x 99 x 240" 1930 x 2515 x 6096mm

STANDARD FEATURES

- All Stainless Steel Modular Construction
- Stainless Steel Piping and Components
- Insulated Chamber and Sumps
- Side Hinged Chamber Access Doors
- Stainless Steel Conveyor Belt
- Interior Trim Panels
- Automatic Five Step Cycle (Includes Optional Dryer)
- Automatic Solution Level Control
- Automatic Fill and Drain
- Hydraulic Hold Down
- 7.5 hp Pump on T248 in Both Wash and Rinse Chambers (All Other Models - 5 hp Pump)
- Wash and Rinse Temperature Guarantee
- 180°F Non Recirculated Final Rinse
- Cold Water Pre-wash Spray Header
- Drain Discharge Cool Down
- Easily Removable Spray Headers
- Large Debris Baskets are Easy to Remove for Cleaning
- Chemical Injection Ports, Contacts and Fittings
- Stainless Steel Sump Steam Coil Heating
- Stainless Steel Ventilation Dampers
- Multi-cycle Microprocessor Control System
- 8 Fully Adjustable Programmed Cycles
- 5" TFT Color Touchscreen Control Panel
- Program Security via Pin Number Access
- Built-in Advanced Diagnostics
- Emergency Stop Buttons at Both Ends
- Non-proprietary Components

OPTIONAL FEATURES

- Left or Right Side Service Access
- Barrier Wall Trim System
- Seismic Anchoring System
- Water Supply Temperature Booster
- Electric Sump Heating
- Energy Saver Heat Exchanger
- Roller Conveyor, Gravity or Powered
- Sloped Belt in Dryer Section
- Forced Air Nozzles
- Regenerative Blower w/Heated or Non-Heated Air Knife
- Power Exhaust Blower
- Exhaust Vapour Condenser
- Automatic Chemical Injection Pumps, Time Based
- pH Neutralization for Effluent
- Shut Off Valves
- Water Arrestors
- Automatic Descale System
- Hand Held Spray c/w 10' Hose
- Bedding Dispenser
- Bedding Disposal Unit (Sure-Flo)
- 8" TFT Color Touchscreen Control Panel
- Stainless Steel Control Guard
- Ethernet Connectivity to PLC or Touchscreen
- Factory Ethernet Connectivity for Online Diagnostics
- Modem Connectivity for Factory Diagnostics
- PLC and Touchscreen Program Backup
- Compact Flash Card for Data Collection
- RS485 Port for Data Download
- Impact or Thermal Cycle Data Printer
- Printer Cover
- CCTV Capability for Unload Side Camera
- Surge Protection
- Clean Side Buzzer

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